

## CLAIMS

We claim:

- 1           1.       A method of producing a printing plate comprising  
2           providing a thermal transfer film carrying a thermal transfer material in proximity  
3   to a surface of a printing plate carrier,  
4           selectively ablating said thermal transfer material using a laser image-setting unit  
5   to apply structure information directly to the surface of said printing plate carrier, thereby  
6   forming a mask directly on said printing plate carrier, and  
7           forming image points and non-image points directly on said printing plate carrier  
8   using said mask in order to produce a printing plate.
- 1           2.       A method as in claim 1 wherein said printing plate is a gravure printing  
2   plate.
- 1           3.       A method as in claim 2 wherein said mask is an etching mask which is  
2   applied to the surface of the printing plate carrier, said method further comprising etching  
3   gravure printing cells by applying acid where said thermal transfer material has been ablated.
- 1           4.       A method as in claim 3 wherein said structure information is applied to a  
2   variable area of said surface with a constant thickness using an autotypical image-data process  
3   during ablation of said transfer material using said laser image setting unit.
- 1           5.       A method as in claim 1 wherein said printing plate is a flexographic  
2   printing plate.

1                   6.     A method as in claim 5 wherein said printing plate carrier comprises a  
2 light sensitive coating which forms said surface, said mask being a copying mask which is  
3 applied to the surface of said carrier, said method further comprising exposing said light-  
4 sensitive coating through said mask by means of a copying lamp in order to form image points  
5 and non-image points on said light sensitive coating.

1                   7.     A method as in claim 6 wherein said copying mask is a positive copying  
2 mask.

1                   8.     A method as in claim 6 wherein said mask is a negative copying mask.

1                   9.     A method as in claim 1 wherein said printing plate is a screen-printing  
2 screen.

1                   10.    A method as in claim 9 wherein said mask is a copying mask.

1                   11.    A method as in claim 10 wherein said printing plate carrier comprises a  
2 network-like fabric structure which forms said surface, said fabric structure being coated  
3 throughout with a light sensitive material, said method comprising applying said copying mask  
4 to said fabric structure and exposing said light-sensitive coating through said mask by means of a  
5 copying lamp in order to form image points and non-image points on said light sensitive coating.

1                   12.    A method as in claim 10 wherein said copying mask is a positive mask.

1                   13.    A method as in claim 10 wherein said copying mask is a negative mask.

1                   14.    A method as in claim 9 wherein said mask is a screen-printing mask, said  
2 screen-printing screen being produced by electroplating.

1                   15.    A method as in claim 14 wherein said printing plate carrier has a metallic  
2 surface, said method comprising

3                   applying said screen-printing mask to the surface of said printing plate carrier,  
4 said mask serving as a positive mask which insulates said surface, and

5                   forming image points and non-image points directly on said printing plate carrier  
6 by exposing the non-insulated parts of said surface to an electrolyte.

1                   16.    A method as in claim 1 wherein said mask is formed in a printing  
2 machine, and said printing plate is produced by means of said mask in said printing machine.